ц 63353**-**65

ACCESSION NR: AP5011277

physicochemical properties. The group-specific and type-specific components of the soluble antigen are bound to the same fractions. The group-specific antigen of R. prowazeki, shared in common by R. moseri, accompanied the type-specific antigen of R. prowazeki through the purifying stages, and could not be isolated by ammonia sulfate salting out, chromatographic separation, or a combination of both methods. The soluble antigen of the strain E vaccine has the same physicochemical properties as that of the Breinl virulent strain, and also consists of 3 different fractions. It should be noted that the purification of soluble R. prowazeki antigen preparations by ammonia sulfate salting out, followed by fractionating with DEAYecellulose filled columns, purifies the antigen by 40-50 times. Orig. art, has: 2 figures.

ASSOCIATION: None.

SUBMITTED: 02Apr64 ENCL: 00 SUB CODE: LS

HR REF SOV: 005 OTHER: 006

Card 2/2

INVENTOR: Malin, V. P.: Malin, A. P.; Malina, A. P.	
ORG: none	ļ
TITLE: A method of manufacturing multilayer billets from powder materials. Class 49,	'
No. 178653	
SOURCE: Izobreteniva, promyshlennyve obraztsy, tovarnyve znaki, no. 3, 1966, 117	
TOPIC TAGS: clad plate, clad sheet, clad metal, composite metal, composite metal	
billet, sintered billet, sintered metal	
ABSTRACT: This Author Certificate introduces a method of manufacturing composite billets from powder materials by hydraulic pressure. In order to improve the quality of the product, first the billet of the base material is compacted. This billet is then machined to obtain a rough or corrugated surface. The machined billet is placed in a mold of larger diameter, the mold is filled with powder of the cladding material and is pressed again.	
SUB CODE: 11/ SUBM DATE: 23Dec64/ ATD PRESS: 4214	
	2
Card 1/1 2C UDC: 621. 762.043—419	ا
	فضمه

MALINA, Yu. F.

MALINA, Yu. F.: "Synthetic investigation of the quinine alkaloids". Moscow, 1955. Min Higher Education USSR. Moscow Inst of fine Chemical Technology imeni M.V. Lomonosov. (Dissertations for the Degree of Candidate of Chemical Sciences).

SO: Knizhnaya letopis' No 45, November 5, 1955. Moscow.

5(3) AUTHORS:

37/153-58-5-1/28 Yevstigneyeva, R. P., Malina, Yu. P., Prechragianty N. A.

TITLE:

Synthesis of Cis and Trans Homocincho Loipone (Sintez tsis- 1

trans-gomotsinkholoyponov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimichesk 🤝

tekhnologiya, 1958, Nr 5, pp 46-51 (USSR)

ABSTRACT:

The authors extended the earlier (Refs 1-4, 6, 7) devised synthesis scheme to the compounds of indole structure, as far as alkaloids of this group are of theoretical and practical interest as well (Ref 5). Homocincho loipone and homo merochinene are of importance for the synthesis of the alkaloids of the indole group according to the scheme mentioned. The synthesis of homocincho loipone described in the present paper was carried out on the basis of the diethyl ester of the  $\beta = (\alpha' - cyan) - propyl glutaric acid. This ester is the most im$ portant semiproduct in the synthesis of the alkaloid emetin (Refs 6, 7). By hydrogenating the said ester 4-carbethoxy methyl-5-ethyl-piperidone-2 (by-product in the emetin production is obtained in 2 isomeric forms: 1) Crystalline (II-a), and

2) Oily (II-b). The synthesis with these two substances was

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SOV/153-58-5-7/28

Synthesis of Cis and Trans Homocincho Loipone

carried out separately. The reduction of the said piperidone with lithium aluminum hydride leads to 3-ethyl-4- $(\beta$ -oxy ethyl)piperidines (III-a and b). The crystalline piperidone unsoluble in ether was reduced in dioxane, the oily one in ether. By the action of thionyl chloride upon the hydrochlorides of the said piperidines hydrochlorides of the 3-ethyl-4-( $\beta$ -ethyl chloride)-piperidines are formed. Without isolation these are transformed into N-acetyl-3-ethyl-4-(β-ethyl chloride)piperidines (IV-a and b). When treating the latter with potassium cyanide N-acetyl-3-ethyl-4-(β-ethyl cyanide)-piperidines (V-a and b) are formed. The saponification of these piperidines finally yields 3-ethyl-4- $(\beta$ -carboxyl-ethyl)-piperidines, i. e. homocincho loipones (VI-a and b). Chlorine aurates of homocincho loipone were synthesized: a) from the crystalline form of 4-carbethoxy-methyl-5-ethyl-piperidone-2 (II-a) with a melting point of 174.4+1750; b) from the oily form (II-b) with a melting point of 194.5-195°. The structure of the synthesized substances was checked by comparison of the intermediate products (III-a and b) with 3-ethyl-4-( $\beta$ -oxy ethyl)-piperidine (III-v), which had been synthesized by way of the merochinene stage from natural quinine. As is known, the piperidine products

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SOV/153-58-5-7/28

Synthesis of Cis and Trans Homocincho Loipone

of the cinchona bark-alkaloids maintain their cis configuration. Table (p 48) gives the characteristics of the compounds synthesized. Infrared spectra (Fig p 48, taken by Yu. N. Shenker) proved the identity of the synthesized substances mentioned (III-a, b and v) with those from natural quinine. Based on these spectra as well as on the melting points the authors arrived at the conclusion that the homocincho loipone synthesized from the semi-product corresponds to a cis-configuration, whereas that from the oily type corresponds to a trans-configuration.

There are 1 figure, 1 table, and 7 Soviet references.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova, Kafedra tekhnologii lekarstvennykh i dushistykh veshchestv (Moscow Institute for Fine Chemical Technology imeni M. V. Lomonosov, Chair of the Technology of Medicinal Substances and Aromatics)

Card 3/4

MALINA, YU.F.

23

## PHASE I BOOK EXPLOITATION SOV/5628

Akademiya nauk SSSR. Institut biologicheskoy fiziki

Rol' perekisey 1 kisloroda v nachal'nykh stadiyakh radiobiologicheskogo effekta (Role of Peroxides and Oxygen During Primary Stages of Radiobiological Effects) Moscow, 1960. 157 p. 4,500 copies printed.

Responsible Ed.: A. M. Kuzin, Professor; Ed. of Publishing House: K. S. Trincher; Tech. Ed.: P. S. Kashina.

PURPOSE: This collection of articles is intended for scientists in radiobiology and biophysics.

COVERAGE: Reports in the collection deal with the role of peroxides and oxygen in the primary stages of a radiobiological effect. They were presented and discussed at a symposium held December 25-30, 1958, organized by the Institut biofiziki AN SSSR, (Institute of Biophysics, AS USSR). Twenty-eight Moscow scientists, radiobiologists, radiochemists, physicists, and

Card-1/5

Role of Peroxides and Oxygen (Cont.)

physical chemists took an active part in the symposium. Between the time of its conclusion and the publication of the present book some of the materials were expanded. In addition to the authors the following scientists participated in the discussion: authors the following scientists participated in the discussion: L. A. Tummerman, V. S. Tongur, G. M. Frank, Yu. A. Kriger, E. Ya. Grayevskiy, N. N. Demin, B. N. Tarusov, and I. V. Vereshchenskiy. References follow individual articles.

TABLE OF CONTENTS:

Kuzin, A. M. [Institut biologicheskoy fiziki AN SSSR - Institute of Biophysics, AS USSR]. Role of Formation of Peroxides During the Action of Radiation on Biological Specimens

Bakh, N. A. [Institut elektrokhimii AN SSSR - Institute of Electrochemistry, AS USSR]. Formation of Organic Peroxides Under the Action of Radiation

Dolin, P. I. [Institute of Electrochemistry, AS USSR]. Lifetime of Intermediate States Arising During the Action of Radiation on Aqueous Solutions

		8	
Role of Peroxides and Oxygen (Cont.)	SOV/5628	i	
Shal'nov, M. I. Branching Chain Reactions of the Ra Aftereffect in a Warm-Blooded Organism	adiation 72	:	ļ
Budnitskaya, Ye. V., and I. G. Borisova [Institute chemistry imeni A. N. Bakh, AS USSR]. Formation of and Activation of Ferment Oxidation of Lipids in Pl Radiation Effect	Peroxides		
Malina, Yu. F., and M. I. Tseytlin [Institut eksper biologii AMN SSSR - Institute of Experimental Biolo Effect of Irradiated Aqueous NaCl Solutions on the of Tissue Nucleoproteids	ogy AMN USSR].		) } ;
Blyumenfel'd, L. A. [Institut khimicheskoy fiziki A Institute of Chemical Physics, AS USSR]. Problem of fication of Free Radicals by the Electron Paramagno nance Method	of Identi-	,	
Kuzin, A. M., L. P. Kayushin, I. K. Kolomiytseva, a L'vov [Institute of Biophysics, AS USSR]. Postire Study of Free Radicals of Certain Organic Peroxides Card 4/5	adiation		
			•

5.3610

77385 sov/79-30-1-46/78

AUTHORS:

Malina, Yu. F., Yevstigneyeva, R. P., Preobrazhenskiy,

-N. A.

TITLE:

Synthesis of cis-Homocincholoipon

PERIODICAL:

Zhurnal obshchey khimil, 1960, Vol 30, Nr 1, pp 213-

216 (USSR)

ABSTRACT:

The synthesis of cis- and trans-homocincholoipons based on diethyl ester of  $\beta$ -(  $\alpha$ -cyanopropyl)glutaric acid was reported previously (Izv. vyssh. uchebn. zaved., MVO SSSR, Khimiya i khim. tekhnolog., 1958, Nr 5, p 46).

The present study deals with the synthesis of cishomocincholoipon (VI; R=H) based on ethyl ester of the mononitrile of  $\alpha$ -ethyl-  $\alpha$ -carboethoxy-  $\beta$ -methoxy-

methylglutaric acid (I; R=C<sub>2</sub>H<sub>5</sub>):

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$$\begin{array}{c|c} CH_2OCH_3 & CH_2OCH_3 & CH_2OCH_3 \\ \hline CH & COOR & COOR \\ NC & COOR & N & O & N \\ \hline (I) & H & (II) & H & (III) \end{array}$$

Synthesis of cis-Homocincholoipon

The reduction of ester (I) in ethanol in the presence of Raney nickel gave 3-ethyl-3-carboethoxy-4-methoxy-methylpiperidone-2 (II;  $R=C_2H_5$ ) in two isomeric forms: (1) bp  $175-177^{\circ}$  C at 1 mm; and (2) bp  $210-215^{\circ}$  C (1 mm). Fraction  $175-177^{\circ}$  C was used in the subsequent reactions. Saponification of piperidone (II) ( $R=C_2H_5$ ) with KOH in water-alcohol solution gave the acid (II; R=H) which on decarboxylation gave 3-ethyl-4-methoxy-methylpiperisone-2 (III). Reduction of (III) with lithium aluminum hydride in dioxane gave 3-ethyl-4-

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Synthesis of eis-Homocincholoipon

77385 SOV/79-30-1**-**46/78

methoxymethylpiperidine (IV). The latter, on treatment with 47% hydrobromic acid, gave 1-nitroso-3-ethyl-4-bromomethylpiperidine (V; R = NO), which on condensation with sodium malonate, saponification, and decarboxylation gave 1-nitroso-3-ethyl-piperidyl-4-propionic acid (VI; R = NO). Finally, the elimination of the nitroso-group by heating the latter acid with cuprous chloride gave cis-homocincholoipon (VI; R = H; mp 172-172.5° C). The same starting materials and same type of reactions can be applied also for the synthesis of pilocarpine alkaloids. Ester I (R=C<sub>2</sub>H<sub>5</sub>) on treatment with methanol saturated with HCl gave methyl ester of  $\gamma$ ,  $\gamma$  - dicarboethoxy-R -methoxymethylcaprois acid (VII)

saturated with HCl gave methyl ester of  $\gamma$ ,  $\gamma$  - dicarboethoxy-  $\beta$  -methoxymethylcaproic acid (VII). The latter was hydrolyzed with HCl or 40% hydrobromic acid, and yielded a mixture of diastereomeric  $\alpha$ -ethylhomoparaconic acids (VIII; mp 48-60° C), one of which was identified as racemic homopilopic acid (mp 102-103° C), the other as racemic homoisopilopic acid (mp 73-74° C).

Card 3/4

Synthesis of cis-Homocincholoipon

There are 2 references, 1 U.S., 1 Soviet. The U.S. reference is: C. F. Koelsch, J. Am. Chem. Soc., 68, 146 (1946).

ASSOCIATION:

Moscow Institute of Fine Chemical Technology (Moskov-skiy institut tonkoy khimicheskoy tekhnologii)

SUBMITTED:

December 26, 1958

Card 4/4

LOMAKIN, M.S.; MALINA, Yu.F.

Comparative study on the antigenic structure of tumor and homologous normal cells. Report No.3: Immunobiological characteristics of desoxyribonucleoproteins isolated from Guerin's carcinoma and normal uterus in rats. Biul. eksp. biol. i med. 51 no.3:88-93 Mr '61.

(MIRA 14:5)

1. Iz laboratorii neinfektsionnoy immunologii (zav. - prof. I.N. Mayskiy) i radiobiologicheskoy gruppy (rukovoditel' - kandidat khimicheskikh nauk P.I.TSeytlin) laboratorii biokhimii (zav. - doktor khimicheskikh nauk V.S.Tongur) Instituta eksperimental'noy biologii (dir. - prof. I.N.Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym).

(TUMORS) (UTERUS) (NUCLEOPROTEINS)

UNKOVSKIY, B.V.; MALINA, Yu.F.; SOKOLOVA, T.D.

Stereochemistry of acetylene synthesis. Part 4: Synthesis and spatial configuration of the geometric isomers of 1,2-dimethyl-4-ethynyl-4-piperidol and their derivatives. Zhur. org. khim. 1 no.4:699-706 Ap '65. (MIRA 18:11)

1. Moskovskiy institut tonkoy klimicheskoy tekhnologii imeni Lomonosova.

## "APPROVED FOR RELEASE: 06/20/2000

## CIA-RDP86-00513R001031810012-4

AP6025388 ACC NRI

SOURCE CODE: UR/0366/66/002/007/1148/1155

Unkovakiy, B.V.

AUTHOR: Belyanin, V. B.; Urinovich, Yo. M.; Malina, Yu. F.

ORG: Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITIE: Stereochemistry of cyanohydrin synthesis. Part 1: Conformational study of storeoisomeric 1,2-dimethyl-, 1,3-dimethyl- and 1,2,5-trimethyl-4-carbomethoxy-4piperidinols

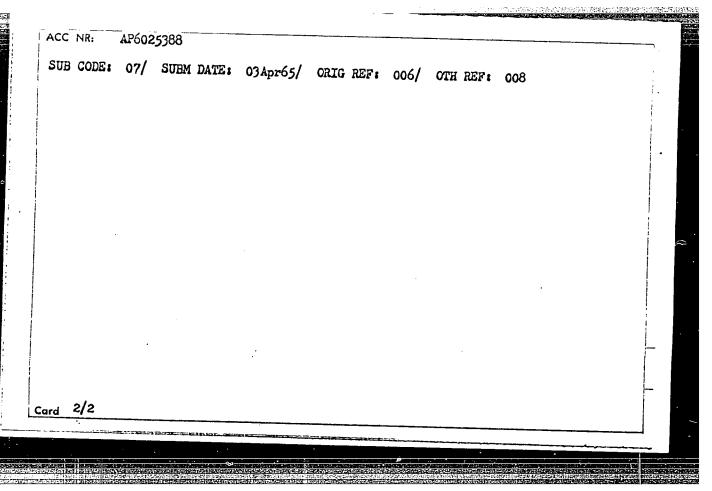
SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 7, 1148-1155

TOPIC TAGS: stereochemistry, IR spectrum, piperidinol

ABSTRACT: IR absorption spectra were used to study the conformations of stereoisomeric 1,2-dimethyl-, 1,3-dimethyl- and 1,2,5-trimethyl-4-carocmethoxy-4-piperidinols. The study confirmed the spatial configurations ascribed to these compounds on the basis of their configurative relationship to the geometric isomers 1,2-dimethyl-, 1,3-dimethyl- and 1,2,5-trimethyl-4-acetyl-4-piperidinels. The spatial conformations of the compounds in solutions and the characteristics of IR spectra were correlated with the diverse character of interactions of their functional groups depending upon their spatial orientation. The correlation established between the IR spectra and the conformations of the functional groups can be used for determining the spatial structure of other analogous compounds. Orig. art. has: 1 figure.

Card 1/2

UDC: 547.823+541.634+543.422



20576

9.1300 (also 1006,1130)

5/109/61/006/002/008/023 E140/E435

**AUTHORS:** 

Katsenelenbaum, B.Z. and Malina, Z.A.

TITLE:

The Design of Tapers for the Symmetrical Magnetic Wave

in a Circular Waveguide

PERIODICAL: Radiotekhnika i elektronika, 1961, Vol.6, No.2,

pp.228-233

TEXT: The problem is to design waveguide tapers for transmission of the  $H_{01}$ -wave in circular waveguide with minimum conversion loss. The method used is based on the authors' previous results (Refs.1 and 3) (studied also by H.Unger, Ref.2). The treatment of critical sections is based on the authors' previous work (Ref. 4). The method is based on the now well-known analogy applying to a certain approximation between the problem considered and that of finding the optimum form of variation of transmission line wave impedance for a matching section between two lines with differing wave impedances. The precision of the method depends on neglecting the difference between the wave length of the Ho1and H<sub>02</sub>-waves in the waveguide and in free space. conditions, the waveguide taper is calculated on the basis of optimal results known from transmission line theory. Card 1/2

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5/109/61/006/002/008/023
The Design of Tapers ... E140/E435

are considered, one with the absence of critical sections, the other in their presence. The results obtained show that the approximation used is valid in the former case. To handle the latter case a more exact approximation, involving greater calculations, is given. This modification, being more general, is also applicable to the case of absence of critical sections but the results are not more satisfactory than the simplified method applicable to that case. There are 4 figures, 1 table and 8 references: 4 Soviet and 4 non-Soviet.

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR

(Institute of Radioengineering and Electronics AS USSR)

SUBMITTED: June 24, 1960

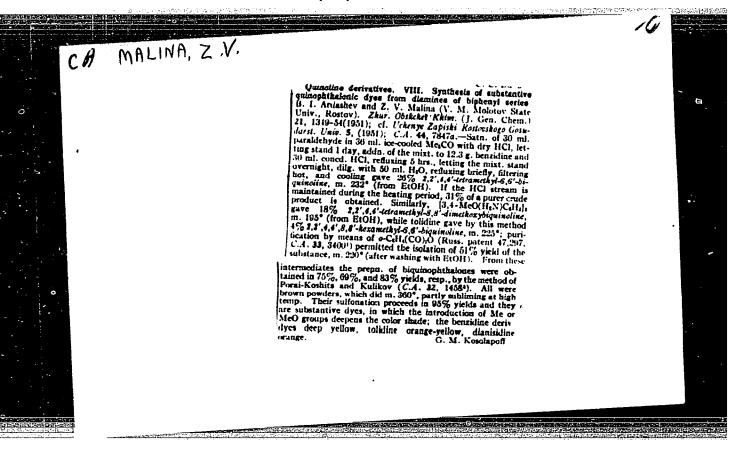
Card 2/2

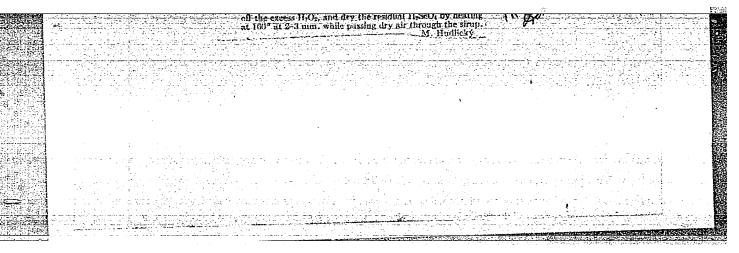
YELINSON, M.I.; DOBRYAKOVA, F.F.; KRAPIVIN, V.F.; MALINA, Z.A.; YASNOPOL'SKAYA, A.A.

Concerning the theory of field emission and thermoionic field emission of metals and semiconductors. Radiotekh. i elektron 6 no.8:1342-1353 Ag '61. (MIRA 14:7) (Field emission) (Metals-Electric properties) (Semiconductors)

ISAYENKO, Yu.M.; MALIN, V.V.; MALINA, Z.A.

Analysis of the system of waves in a circular wave guide with impedance boundary conditions on the walls. Radiotekh. i elektron 7 no.7:1106-1114 '62. (MIRA 15:6) (Wave guides)





FORSTER, Vaclav; MALINAKOVA, Helena

Considerations on a method for the determination of phenols in urine by means of a dibromoquinone chloroimide. Pracovni lek. 13 no.2:82-8? Mr '61.

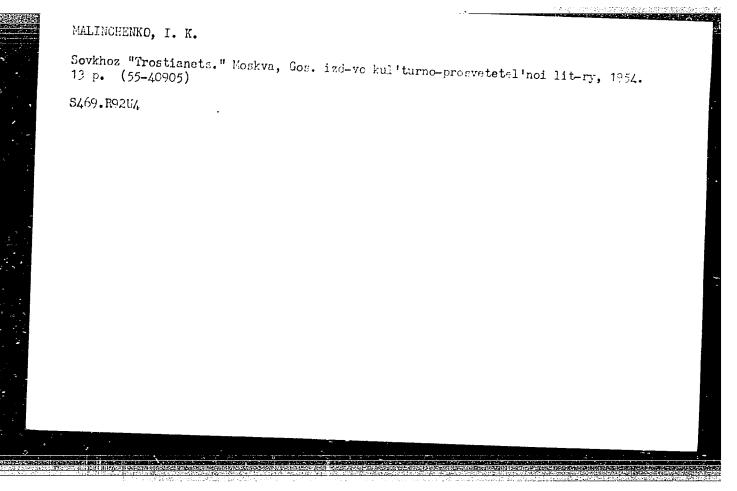
1. Interni oddeleni KUNZ v Karlovych Varech, primar MUDr. J. Havranek Ustredni biochemicke laboratore KUNZ v Karlovych Varech, prednosta RNDr. H. Malinakova.

(PHENOLS urine)

Compound therapy for acute suppurative peritonitis. Khirurgiia
32 no.4:81-88 Ap '56. (MIRA 9:8)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. prof. V.Ya.
Shlapoberskiy) Vil'nyusakogo gosudarstvennogo universiteta i Pervoy
sovetskoy bol'nitsy (glavnyy vrach I.T.Yeliseyev)

(PERITONITIS, therapy,
complex methods (Rus))



MALINCHENKO, I. K. Vysokiye Prozhai Podsolnechinika. (Kolkhoz Im., Tel'mana. Rayona. Stalinskoy Obl. M.. Goskul'trosvetizdat, 1954.) 8s 22sm. (Vsesoyuz. s.-kh. Vystavka) 6,000 Ekz 10k-Avt. Ukazan Na 1-y s.-(55-1027) p. 633.854.78st. (47.715)

SO: Knizhanaya. Letopis, Vol. 1, 1955

## N. MALINCHIN

"Fertilizer application to cotton plants according to the phase of development." Tr. from the Russian. p. 22. (ANALELE ROMANO=SOVIETICE. SERIA AGRICULTURA-ZOCTEMNIE., Vol. 6, seria a II-a, No. 10, Apr./June 1952, Bucuresti, Rumania.)

SO: Monthly List of East European Accessions, L. C., Vol. 2, No. 7, July 1953, Uncl.

TO THE STREET OF CHECKING SELECTIONS

Calculating rubber parts under torsion. (Supplement) P. III/49. (STROJIFENSTVI, Vol. 6, No. 12, Dec 1956, Fraha, Gzechoslovakia)

SO: Monthly List of East European Accessions (MEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

HALINDA, Z., insh.

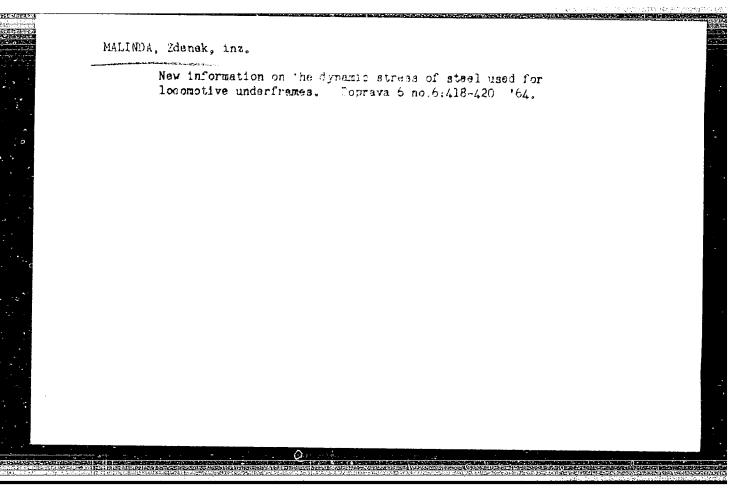
New diesel train of the Czechoslovak railroads. Zhel.dor.transp. 42 no.11:85-87 N '60. (MIRA 13:11)

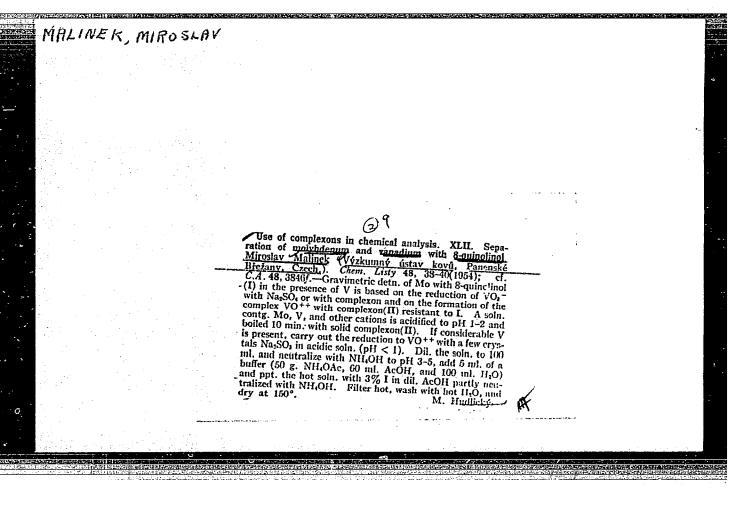
1. Issledovatel'skiy institut transporta Chekhoslovatskoy Sovetskoy

(Czechoslovakia-Railroad motor cars)

MALINDA, Zdenek, inz.

Shock absorbers, a new construction elemet on cars of the Czechoslovak Railroads. Zel dop tech 12 no. 4:90-91 '64.





### MALINEK, M.

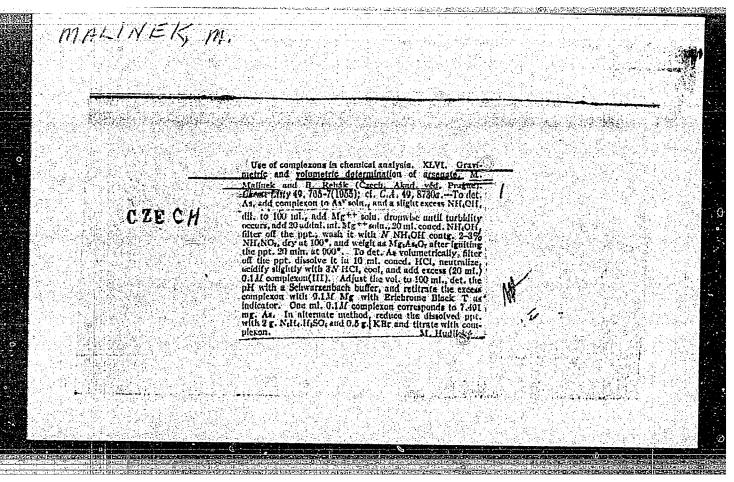
Polarographic determination of bismuth in copper. p. 552. 7th Mining and Metallurgy Day celebrated in Freiberg, December 16-18, 1955. p. 553. HUTNICKE LISTY, Brno, Vol. 10, no. 9, Sept. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

MALINEK, M.

Potentiometric determination of higher manganese content. p.612. HUTNICKE LISTY, prno, Vol. 10, no. 10, Oct. 1955.

SO: Monthly List of East European Accessions, (ELAL), IC, Vol. 5, No. 6, June 1956, Uncl.



CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Inorganic

G-2

Substances

Abs Jour

Francisco Samo

: Referat Znur - Knimiya, No 2, 1957, 4721

Author Inst

: Malinek, M.

Title

: Use of Complexones in Chemical Analysis. XLVII.

Gravimetric Determination of Silver Using

 ${\tt Mercaptophenylthiothiodiazolone}.$ 

Orig Pub

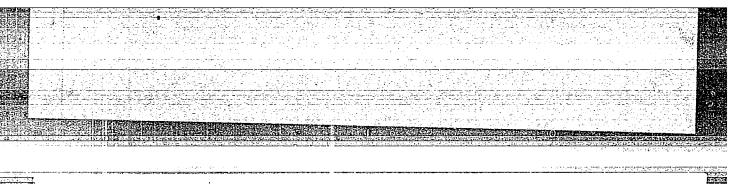
: Sb. chekhosl. khim. rabot, 1956, 21, No 3, 780-782

Abstract

: See RZhKhim, 1956, 5կ744.

Card 1/1

- 2l: -



MACINEK, M.

CZECHOSLOVAKIA/Analytical Chemistry - General Questions

G-l

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4662

Author Title : XLVIII. Schneider Petr. XLIX. Malinek, M., Rahak, B. : Utilization of Complexons in Chemical Analysis. XLVIII. Gravimetric Determination of Thorium. XLIX. Gravimetric

Determination of Silver and Mercury with Mercaptobenzo-

thiazole in the Presence of Complexon III.

Orig Pub

: Chem. listy, 1956, 50, No 1, 81-83; 157-159

Abstract

: XLVIII. In ammoniacal media, in the presence of Complexon III, action of H<sub>2</sub>O<sub>2</sub> on salts of Fe(3+), Al and Th, brings about a quantitative precipitation of only Th (after 30-60 minutes). Precipitation of Fe and Al does not take place even after several days. On precipitation of Th in the presence of Fe, Al and other elements, the readily filterable precipitate is washed with water, calcined and weighed as ThO<sub>2</sub>. In the presence of 10-fold excess of Al, reprecipitation is utilized. Th can

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CZECHOSLOVAKIA/Analytical Chemistr; - General Questions

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Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4662

also be determined by the complexometric method, after dissolution of the precipitate in HCl, using pyrocatechol violet as an indicator (RzhKhim, 1955, 5763). In the filtrate Fe is determined gravimetrically, after removal of  $\rm H_2O_2$  by boiling, and precipitation with alkali in the — cold. To determine Al, there is added to the filtrate, after removal of  $\rm H_2O_2$  by boiling, an equivalent amount of O.1 M Ca(NO<sub>3</sub>)<sub>2</sub>, the flocculent precipitate (AgC6H4NCS<sub>2</sub>)

or  ${\rm Hg}({\rm C_6H_4NCS_2})_2)$  is filtered off through a G3 glass filter, washed with  $\sim$  0.1 N solution of NH4OH and dried at 110°. On determination of Hg the solution must not be strongly alkaline and the stemperature of the solution, during precipitation must be  $\leq$  90°. The precipitate if filtered off immediately and dried  $\leq$  0.5 hour. Determination of Ag and Hg, when both are present, by masking of one of the cathions is not

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CZECHOSLOVAKIA/Analytical Chemistry - General Questions

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Abs Jour

: Referat Zhur - Khimija, No 2, 1951, 4662

possible. The method is suitable for determination of Ag in the presence of excess Pb or of cathions that interfere on a volumetric determination of Ag with SCN.

XLIX. On use of mercaptobenzothiazole (I) as a reagent in gravimetric analysis (Spacu G., Kuras M., Z. analyt. Chem., 1935, 102, 24; 1936, 104, 88; Kuras M., Sb. chekhosl. khim. rabot, 1935, 11, 363) its selectivity can be considerably enhanced by means of complexon (II) (tetrasodium salt of ethylenediamine tetracetic acid). In ammoniacal solution of II, on an addition of I, only Ag and Hg2 are precipitated, while most of the other cathions, with the exception of Au and metals of the Pt-group, are masked by II. In the presence of 4-valent metals and Be they are masked with tartaric acid. To a solution containing 10-100 mg Ag (Hg) is added an excess of II and 1-3 ml of 50% solution of CH3COONH4. After

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CZECHOSLOVAKIA/Analytical Chemistry - General questions

G-1

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4662

alkalinization with NH<sub>L</sub>OH (to phenolphthalein) a slight excess of  $\underline{I}$  is added to the solution maintained at a gentle boil. On stirring at moderate temperature a yellow precipitate is formed and Al is separated quantitatively. Determination of Th is interfered with by  $\underline{I}$  is and rare earth elements. The method is suitable for the analysis of thorium containing  $\underline{W}$  used in radio engineering.

Communication XLVII, see RzhKhim, 1956, 54744.

Card 4/4

- 12 -

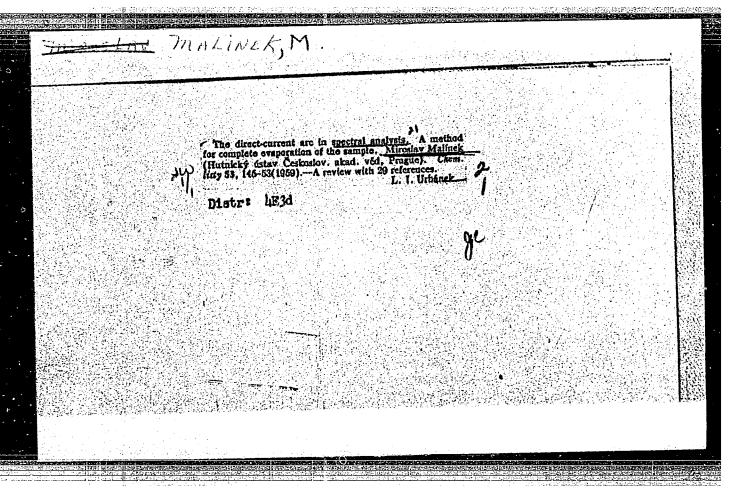
MALIN	2645. The potentiometric and amperometric deter- mination of allyer with mercantonheavithinthiadi- mination of allyer with mercantonheavithinthiadi-	2
	and B. Rehák (Metallurgical Lab., Czechoslovak, Acad Sci., Prague). Z: anal. Chem., 1956, 150  [6], 329-333. Silver solutions can be titrated  potentiometrically with mercaptophenylthiothia- diasolone (I) or mercaptobenzothlazole (II) in neutral or ammoniacal solu, in the presence of	0
	neutral or ammoniacat soin, in the period of the EDTA (to prevent the pptn. of ions other than Ag'), with a silver indicator electrode and a saturated calomel reference electrode. Amperometric determination of Ag' with I or II can be carried determination of Ag' with I or III can be carried out in neutral soin, in the presence of EDTA, with a rotating platinum electrode and a Hg - HgI, half-celf; Hg, Au and some of the platinum metals interfere.	0,
ARREGVED-E		

MALINEK, M. : KLIR, L.

"Use of complexons in chemical analysis. LI. Colorimetric determination of cerium in magnesium alloys. In German."

p. 319 (COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK CHECKSHOSOLVATSKIKH KHMICHESKIKH RABOT. -- Praha, Czechoslovaka.)
Vol. 22, No. 1, Feb. 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958



89745

Z/035/60/000/011/001/001 D007/D102

5.5310 D007/1

Soudný, Mojmír, Engineer, and Malínek, Miroslav, Candidate of Chemical Sciences

TITLE: Spectrographic determination of indium in flue dust

PERIODICAL: Rudy, no. 11, 1960, 380 - 382

TEXT: The article describes spectrographic tests with the constanttemperature-arc method to determine indium in flue dust. The tests
were performed with the aim of finding a rapid method by which metallurgical flue dust can be analyzed for its suitability as a raw
material source of rare metals. There are several methods of spectrographic determination of In, but most of them are explicit methods developed for analysis of specific materials, such as sphalerite, galena and mica, as described by A. I. Busev (Ref. 1: Analiticheskaya khimia india [Analytical Chemistry of Indium] Izdatelstvo
akademii nauk SSSR, Moscow, 1958). However, since the composition
of flue dust varies, a method had to be found which would be independent of both qualitative and quantitative changes of the main compo-

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AUTHORS:

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Spectrographic determination of indium...

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Several attempts were made to eliminate the innents of samples. fluence of "third components" on the spectralline intensity of indium. A so-called constant-temperature-arc method, developed by N. W. H. Addink, J. A. M. Dikhoff, C. Schipper, A. Witmer and T. Groot (Ref. 15: Spektrochim. Acta 7, 45, 1956; Ref. 16: Applied Spectroscopy 10, 128, 1956), where the sample is placed in the crater of a heavy carbon electrode and then completely burned by the arc, was successfully applied for the determination of germanium by M. Malinek (Ref. 17: Applied Spectroscopy, 13, 1, 1959). The same method was now tested for its suitability to analyse indium in flue dust. The tests were performed with a "KSA 1" high-dispersion spectrograph with quartz The tests were lenses, with d/c supplied from a "U 300/20 R 30"electronically-controlled rectifier, a product of the n.p. Křižík Děčín (Křižík National Enterprise, Děčín). "Foma Spektro Modrá 220" and "Agfa Blau Hart" photographic plates and Kodak "D19" and "F5" chemicals were used for photographic processing. Electrodes were made of graphite rods, supplied by the n.p. Elektrokarbon Bratislava (Elektrokarbon National Enterprise, Bratislava) which had to be machined to the

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Spectrographic determination of indium...

shape shown in Figure 1 to achieve quiet burning of the arc. Since the used graphite was originally not meant for this purpose, spectrographic purity could not be achieved, despite chemical and physical purification. The emulsion was calibrated not only with respect to the contrast factor (gamma), but also in regard to the dependence between the actual intensity of the source and the optical density for a certain wave length region. Complete burning of 5 mg Co2O3 was used as light-intensity standard, with the intensity scale given was used as light-intensity standard, with the intensity scale given by a 7-stage filter. To cover the entire range of optical densities, by a 7-stage filter. To cover the entire range of optical densities, by a 7-stage filter of the background to the highest In concentrations, two lines of different intensity, namely Co I 3039.57 and Co I 3042.48 were chosen for construing the calibration curves Co I 3042.48 were chosen for construing the calibration curves (Fig. 2). From the last 4 In lines, the line In I 3039.356, designated U-4 in Harrison tables (Ref. 20: G. R. Harrison: M. I. T. Signated U-4 in Harrison tables (Ref. 20: G. R. Harrison: M. I. T. Wavelength Tables. John Wiley & Sons, New York, 1939), was chosen (Fig. 3), since the other three are not suitable for the constant-temperature-arc method. For the dispersion and resolving power of the used instrument, a disturbing influence could be expected only from Fe at a concentration of 25% and more, and from Cd at a concentration from Fe at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more, and from Cd at a concentration of 25% and more and from Cd at a concentration of 2

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Z/035/60/000/011/001/001 D007/D102

Spectrographic determination of indium...

tration of 10% and more. However, neither element occurs in such high concentration in the flue dust. The tests were performed under the following conditions: Adjusted wavelength, 3,000 %; slit width, 0.025 mm; voltage (source not loaded), 300 V; current (with electrodes in contact), 15.5 A; loading resistance in series with the arc, 25 ohms; electrode gap, 9 mm; weight of sample in the anode, 5 ± 0.1 mg; arc ignition by electrode contact; exposure time till complete burning of the sample (5 - 6 minutes). Densitometric data was obtained at 30 X magnification and a slit width of 0.45 mm. The current was not regulated during exposure, but the rated electrode gap was maintained constant. The time of complete sample burning was determined from spectrograms developed in time. Dry, finely-ground samples were placed in the anode crater and covered by 5 mg SiO2 and some graphite. Four samples of equal composition were exposed on one plate, together with the reference Co spectrum. A calibration curve was drawn for each plate. The percentage of In in the sample was read from the curve after calculating the actual intensity by subtracting the background intensity from the total intensity. assumption that the influence of major components of the sample can

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Spectrographic determination of indium...

be ignored was verified by total burning of various synthetic 5 mg standards with the same content of In, but with varying matrices containing PbS, ZnS, SnO<sub>2</sub>, As<sub>2</sub>O<sub>3</sub>, Sb<sub>2</sub>S<sub>3</sub>, CuS, Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub>. The intensity of the In 3039 line fluctuated only within limits permissible by the method. For construing the analytical curve, synthetic standards were prepared by mixing the basic In standard, containing O.1% In, with a matrix of approximately the same composition as found in flue dust. The corrected In 3039 line intensities are plotted versus In % in logarithmic scale in Figure 4. From 0.001% (threshold sensitivity) to 0.03% In the curve is a straight line; above 0.03% the influence of self-reversal begins asserting itself. In conclusion, the authors state that the tests proved the suitability of the constant-temperature-arc method for spectrographic determination of In in flue dust. The reproducibility of the method was determined by frequent-ly repeated tests. The mean square error was found to be + 13%. The good agreement of results obtained by the described method with those obtained by chemical analysis is shown in Table 1. The time required for analysis is less than 1 hour. The accuracy is considered adequate in view of the more complicated and tedious chemical methods

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#### "APPROVED FOR RELEASE: 06/20/2000 CI

CIA-RDP86-00513R001031810012-4

Spectrographic determination of indium...

89745 Z/035/60/000/011/001/001 D007/D102

of In determination. There are 4 figures, 1 table and 21 references: 5 Soviet-bloc and 16 non-Soviet-bloc. The four most recent references to English-language publications read as follows: H. J. Eichhoff, K. Picard: Spectrochim. Acta 7, 346 (1953); N. W. H. Addink, J. A. M. Dikhoff, C. Schipper, A. Witmer, T. Groot: Applied Spectroscopy 10, 128 (1956); N. W. H. Addink, J. A. M. Dikhoff, C. Schipper, A. Witmer, T. Groot: Spektrochim. Acta 7, 45 (1946); M. Malínek: Applied Spectroscopy, 13, 1 (1959).

Card 6/10

MALINEK, Miroslav

"Methods of Evaluation of Results in Quantitative Spectral Analysis," Prague, Chemicke Listy, No. 11, Nov 60, p. 1144.

Affiliation: Metallurgic Institute, CSAV, Prague.

MALINEK, Miroslav, kandidat chemickych ved; SOUDNY, Mojmir, inz.

Spectrographic analysis of sponge iron. Part 1: Determination of minority elements. Hut listy 16 no.5:358-361 My \*61.

1. Hutnicky ustav, Ceskoslovenska akademie ved, Praha.

SOUDNY, Mojmir, inz.; Malinek, Miroslav, kandidat chemickych ved

Spectrographic analysis of sponge iron. Part 2: Determination of copper and nickel. Hut listy 16 no.6:438-439 Je '61.

1. Hutnicky ustav, Ceskelovenska akademie ved, Praha.

L 32041-66 EEC(k)-2 IJP(c)

ACC NRI AP6020640

SOURCE CODE: CZ/0008/65/050/003/0897/0913

AUTHOR: Malinek, Miroslav

ORG: Geological Institute, CSAV, Prague (Geologicky ustav CSAV)

TITIE: Direct recording in emission spectral analysis

SOURCE: Chemicke listy, no. 8, 1965, 897-913

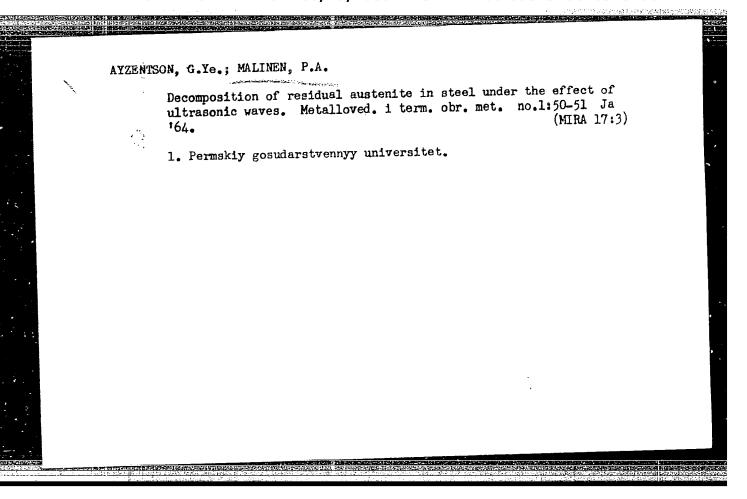
TOPIC TAGS: emission spectrum, spectrum analysis, photomultiplier, spectrometer/ FEU-18 photomultiplier, DFS-10 spectrometer

ABSTRACT: Development of recording spectrophotometers in recent years is reviewed. The advantages of using photographic plates for registration of weak impulses are discussed. Photoelectric multipliers, optical and mechanical construction details, and the wiring diagrams of spectrophotometric instruments are discussed. Russian photomultiplier FEU-18 is compared to RCA produced apparatus. Russian spectrometer DFS-10 allowing the use of batteries instead of photomultipliers is discussed. The diffraction grid of the DFS-10 is discussed. The author thanks Engineer Ladislav Hladek, Candidate of Sciences, Institute of Physical Chemistry CSAV, for proofreading the manuscript and Docent, Doctor, Engineer Bohumil Polej, Candidate of Sciences, VSChT for comments in directing the operation. Orig. art. has: 17 figures and 1 table. Cord 1/1 00 / SUEM DATE: none / OTH REF: 034 / SOV REF: 005

KOTEL'NIKOV, N.V.; KORENEV, N A.; MALINEN, P.A.; YERMOLINA, T.D.

Effect of annealing on the magnetic properties and structure of nickel obtained by a chemical method. Izv. SO AN SSSR no.10:142-146 '63. (MIRA 17:11)

1. Permskiy gosudarstvennyy universitet.



41574

s/020/62/146/004/006/015

B104/B102

AUTHORS:

Kotel'nikov, N. V., Korenev, N. A., Malinen, P. A

Yermolina, T. D.

TITLE:

Magnetic properties and structure of nickel films produced

by chemical methods

PERIODICAL: Akademiya nauk SSSR. Doklady, v.146, no. 4, 1962, 797 - 798

TEXT: The specimens (Table 1) were produced and studied by methods fully described in a previous paper (N. V. Kotel'nikov et al., DAN, 143, no. 4, 908 (1962)). A nickel: wire was fastened to a copper backing and nickel was precipitated for 20 min at a bath temperature of 67°C, the bath being renewed every 5 minutes. The specimens 2, 3, 4, and 5 showed ferromagnetic properties (hysteresis loops) when the magnetic field had an amplitude of 84 oe and a frequency of 50 cps. With stronger fields, specimen 1 too showed ferromagnetic properties. Freshly produced specimens were amorphous or : crystalline. Amorphous specimens showed no ferromagnetic properties. X-ray pictures of specimens 1 and 4 show blurred lines of  $\beta$ -Ni. A fine dispersion of the precipitates is inferred from the blurred quality of the lines depending on the reflection angle. The x-ray picture of specimen 6 Card 1/2

S/020/62/146/004/006/015 B104/B102

Magnetic properties and structure ...

Table 1

is typical of an "amorphous" body with diffuse lines corresponding to an interplanar spacing of d=2.03 R and somewhat shifted as compared with the (111) lines of the cubic nickel lattice. There are 3 figures and 1 table.

ASSOCIATION: Permskiy gosudarstvennyy universitet im.A. M. Gor'kogo

(Perm' State University imeni A. M. Gor'kiỳ)

PRESENTED: May 10, 1962, by A. V. Shubnikov, Academician

SUBMITTED: May 9, 1962

Table 1.

Card 2/2

AYZENTSON, Ye.G.; MASINEN, P.A.; STIVIK, T.V.; UTROBINA, I.K.

Effect of ultrasonic waves on the formation of cartill grains during the quenching of hardened carbon steel. Fiz. met. 1 metalloved. 17 no.44624-627 Ap %64. (MIRA 17:8)

1. Yestestvenno-nauchnyy institut pri Fermakom gosudarstvennom universitete imeni A.M. Gorikogo.

s/0126/64/017/005/0777/0779

ACCESSION NR: AP4039606

AUTHORS: Ayzentson, Ye. G.; Maline... P. A.; Uvarov, A. I.

TITLE: On the decay of residual austenitic steel KhVG subjected to ultrasonic vibrations

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 5, 1964, 777-779

TOPIC TAGS: ultrasonic oscillation; austenitic steel, austenite, martensite lattice, transition rate, steel KhVG

ABSTRACT: The effect of ultrasonic oscillations on the residual austenitic steel decay has been studied under various heat treatments and oscillation amplitudes. Cylindrical specimens (9 mm in diameter) made of KhVG steel were used. They were heated to 1000C for 15 minutes, quenched in oil, and subjected to 20.5-Kcycle ultrasonic oscillations (at 170C and 200C temperatures in glycerin, and at 250-270C ultrasonic oscillations (at 170C and 200C temperatures in glycerin, were used for in a saltpeter bath). Other specimens, not subjected to oscillations, were used for comparison. All results were plotted as  $\Delta\gamma$  versus oscillation time and amplitude comparison. All results were plotted as  $\Delta\gamma$  versus oscillation time and those ( $\Delta\gamma$  is the difference in austenite content between the control specimen and those subjected to ultrasonic oscillations). At 170C the steel contained a significant subjected to ultrasonic oscillations). This amount reached a maximum after 30 minutes of

Card 1/2

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annealing and decreased continuand occured after 20 minutes of oscillation amplitude increased oscillations promoted migratic lattices, thus increasing the ASSOCIATION: Yestestvenno-nata. M. Gor!kogo (Institute of SUBMITTED: 03Jun63	ed from 0 to 8 microns. on of atoms from austenit transition rate. Orig.	tic lattices into marte art. has: 3 figures. mskom gosuniversitete tate University)	ensitio
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Card 2/2			

EMT(m)/EMA(d)/T/EMP(t)/EMP(b)/EMP(1)/EMA(h) Peb 5/0126/64/017/004/0624/0627 ACCESSION NA: AP4034064 AUTHORS: Ayzentson, Ye. G.; Malinen, P. A.; Spivak, I. V.; Utrobina, I. K. TITLE: Effect of ultrasonic oscillations on carbide grain formation during annealing of quenched carbon steel 16 SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 4, 1964, 624-627 TUFIC TAGS: ennealing, quenching, ultrasonic vibration, carbon steel/ U12 steel ABSTRACT: The effect of ultrasonic oscillations on caroide formation was investigated in Ul2 steels during annealing at 6800. The 10-mm diameter steel specimens were quenched from 9600 temperature in oil and screwed on the waveguide of a magnetostrictive vibrator. At 20.5-kc frequency standing waves of 10 M amplitude were created in the specimen. After the test, longitudinal sections were sliced off from the specimen and the microstructure was analyzed at 2000 magnification. After 1 hour of annealing and ultrasonic oscillations, the microstructures indicated, on the average, larger carbide particle sizes with greater distances between each carbide particle than in the control specimens. A graphical plot of the number of carbide particles versus annealing time shows that the effect of

L 27261-65

ACCESSION NR: APhO3h06h

ultrasonic oscillations first increases, reaches a maximum, and subsequently decreases. For a given test duration time, the particle distribution falls sharply from the end of the specimen until it reaches a constant value at a distance of h0 mm. These results show that ultrasonic oscillations promote coagulation of carbides in Ul2 steels. Crig. art. has: h figures.

ASSOCIATION: Testestvenno-nauchnyy institut pri Permskom gosuniversitete im. A. M. Gor'kogo (Natural Science Institute, Perm State University)

SUBMITTED: 16Apr63 ENGL: OO SUB CODE: NM

NO REF SOV: OO7 OTHER: OOL

ACC NR: AP700C642 SOURCE CODE: UR/0414/66/OCO/CO3/OC59/CC66 AUTHOR: Lukashenya, G. V. (Moscow); Malinenko, G. M. (Moscow); Bakhman, N. N. (Moscow); Belyayev, A. F. (Moscow)	
TITLE: Temperature coefficient of burning velocity in condensed mixtures at various component ratios  SOURCE: Fizika goreniya i vzryva, no. 3, 1966, 59-66  TOPIC TAGS: ammonium perchlorate, rocket propellant, solid propellant, combustion, temperature composite propellant, propellant, solid propellant combustion, temperature, propellant, solid propellant combustion, temperature, and the initial temperature (To) de-ABSTRACT: A study has been made of the initial temperature of ammonium pendence of the burning velocity (u) for model mixtures of ammonium pendence (AP) with polystyrene (PS), poly(methyl methacrylate) (PMM perchlorate (AP) with polystyrene (PS), poly(methyl methacrylate) (PMM penchlorate (AP) with polystyrene (PS), poly(methyl metha	), wn
Cord 1/3 UDC: 536.46	

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combustion proceeded upward. Combustion time was measured with a piezoelectric pickup. To record accurately combustion completion, a small amount of fast-burning potassium picrate was placed at the upper end of

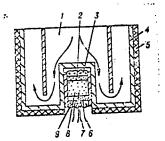


Fig. 1. Charge heating

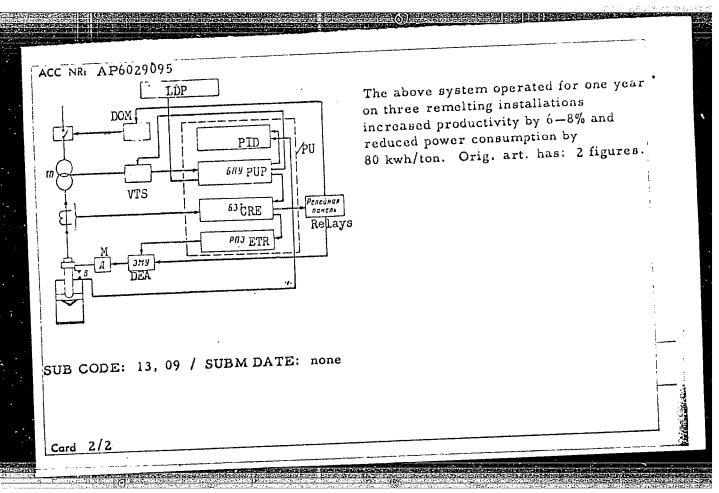
1 - Hot-air stream; 2 - potassium picrate; 3 - thermal insulation; 4 - body of heater (stainless steel); 5 - thermal insulation (asbestos); 6 - spiral for ignition; 7 - thermocouple; 8 - charge; 9 - igniting composition.

The data given in tabular and graphic form involve  $T_0$  values from -65 to 2000, combustion temperatures from 1500 to 2900K, and pressures from 1 to 100 atm. It was found that in all cases u is monotonic increasing with  $T_0$ . The dependence  $u(T_0)$  was conveniently characterized by the temperature coefficient  $\beta = d \ln u / d T_0$ .  $\beta$  was highly dependent on the fuel/oxidizer ratio (a). The curve  $\beta(a)$  had a minimum whose position corresponded to that of the burning velocity peak. For mixture compositions not too far from stoichiometric, β increased with

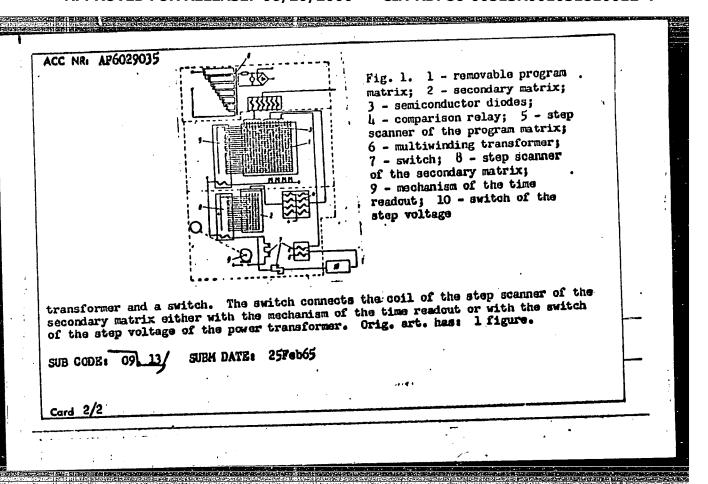
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cons: AP7000642 didizer particle size. The sent with the idea that β is small and vice which arge, β is small and vice while shees.	dotermin	es the burn	ing ve	locity; 11 figures ar	gree- in the To is ad 7 A. 68]	
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Card 3/3	2.					

	7. E. S.
ACC NR: AP6029095 SOURCE CODE: UR/0118/66/000/006/0007/0009	4
UTHOR: Pirozhnikov, V. Ye. (Engineer); Kolchanov, V. A. (Engineer);	•
Malinenko, M. A. (Engineer)	٠
ORG: none	
FITLE: Program control of electroslag metal remelting process	
SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 6, 1966, 7-9	i
TOPIC TAGS: electroslag melting, program control, industrial automation	
ABSTRACT: Developed in the Central Laboratory of Automatics (TsLA) jointly with some workers of "Elektrostal'" plant im. I. F. Tevosyan, the new program-control equipment includes (see figure): a program unit (PU) which comprises a processinterval duration unit (PID), a program unit proper (PUP), a current reference input element (CRE), and an electrode-travel regulator (ETR); a dynamoelectric amplifier element (CRE), and motor (M); a voltage-tap switch (VTS); a h-v disconnect-(DEA); electrode-moving motor (M); a voltage-tap switch (VTS); a h-v disconnect-switch operating mechanism (DOM); and a luminous display panel (LDP). Functioning of the program control is explained and a simplified electrical circuit is presented.	
Cord 1/2 UDC: 66.065.5:62-503.55	<u></u>
Curu 1/2	



SOUNCE CODE: UN/Oh13/66/000/Ohl/0051/0052  INVENTORS: Kolchanov, V. A.; Yefroymovich, Yu. Ye.; eVinogradov, V. M.; Kotikov, A. N.; Pirozhnikov, V. Ye.; Malinenko, M. A.; Gunin, 1. V.  ORG: none  TITLE: A device for controlling the electric system of an electric slag remelting installation. Class 21, No. 1636h7 / announced by Central Laboratory of Automation (Tsentral'naya laboratoriya avtomatiki)  SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 51-52  TOPIC TACS: slag, smelting furnace, metallurgic furnace, electric equipment, automatic control system  ABSTRACT: This Author Certificate presents a device for controlling the electric system of an electric slag remelting installation based on the Author Certificate system of an electric slag remelting installation based on the Author Certificate noncontact readout of the specification. The program mechanism includes a removable noncontact readout of the specification. The program mechanism includes a removable program matrix and a secondary matrix made from semiconductor diodes (see Fig. 1).  These matrices are electrically connected through a comparison relay. The contacts of These matrices are electrically connected through a comparison relay. The contacts of These matrices are electrically connected through a comparison relay. The contacts of These matrices are connected with the coil of the step scanner of the program matrix.		and Improve
installation. Class 21, (Tsentral naya laboratoriya avtomatiki)/ (Tsentral naya laboratoriya avtomatiki)/ SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 51-52  TOPIC TAGS: slag, smelting furnace, metallurgic furnace, electric equipment, automatic control system  ABSTRACT: This Author Certificate presents a device for controlling the electric system of an electric slag remelting installation based on the Author Certificate system of an electric slag remelting installation based on the Author Certificate noncontact readout of the specification. The program mechanism includes a removable noncontact readout of the specification. The program mechanism includes (see Fig. 1). program matrix and a secondary matrix made from semiconductor diodes (see Fig. 1). These matrices are electrically connected through a comparison relay. The contacts of these matrices are electrically connected through a comparison relay. The contacts of the relay are connected with the coil of the step scanner of the program matrix.	ACL NR. AP6029035	2_
UDC: 621.305.2.010	installation. Class 21, in the control of the device because of the No. 139032. The design increases the reliability of the device diedes (see Fig. 1).	1

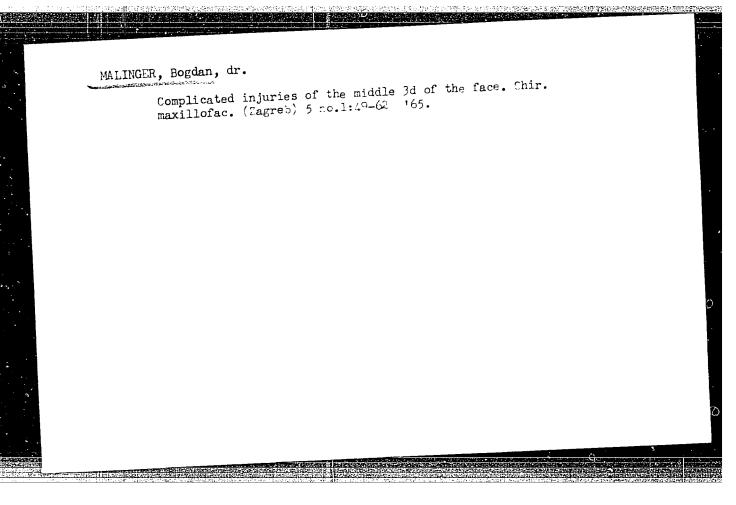


MALINEVSKIY, A. P.
"The investigation of phenomena arising on the relative motion of ions." (p. 596)
SO: ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 1953, Vol. 25, No. 5 (11)

MALINGER, Bogdan, Major dr.

Osteosynthesis of the mandible. Voj. san. pregl., Beogr. 13 no.3-4:212-216 Mar-Apr 56.

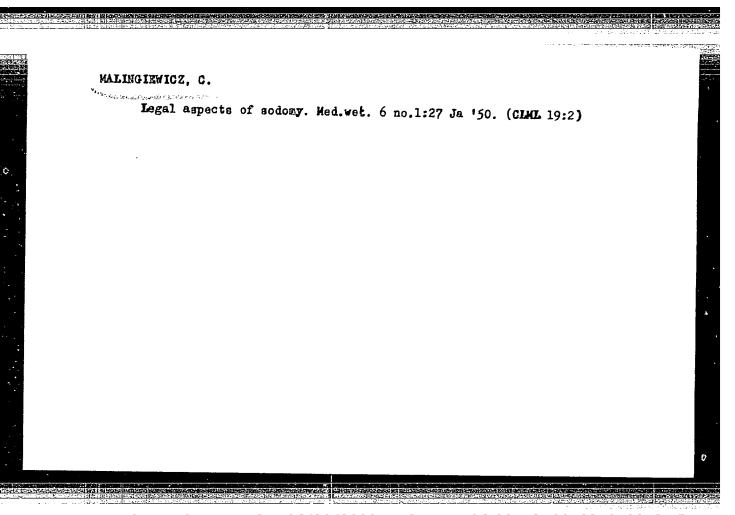
1. Klinika za stomatologiju i maksilo-facijalnu kirurgiju Medicinskog fakulteta u Zagrebu. (MANDIBLE, surg. osteosynthesis (Ser))



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                              ABSTRACT : For the determination of NeyT and NegT in the presence of each other, there is they send a method which
                               comprises theory stitum of Nur With CO(Nu2); in void
                              medium (according to the great m: 2\pi i \cdot \theta_2 + 60(as_2)_2 = 60_2 +
                              housement and one to the real and arrival of Most with a + 3H<sub>2</sub>O + 2N<sub>2</sub>O and subsect of the paragraphy of Most with a background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M MOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M HOS + 0.02 M HOS + 4.10-4 M CO<sub>2</sub>(1H<sub>3</sub>COO)<sub>2</sub>I background of 0.2 M HOS + 0.02 M HOS + 0.0
                                  It was found that the most clearly defined polarographic
                               waves of NO37 are obtained on lecomposition of NO_2 in a medium of HCl. To determine the sum of NO_3 + NO_2 , there are placed into the power apply cell 5 ml of the obtainer placed into the power are placed.
                                  ground solution, 4 ml water, and 1 ml of the solution being
                                           CARD: 1/3
                                                                 * "+ 3 **
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                                                                                                                                                                                                                                                                                    CIA-RDP86-00513R001031810012-4"
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                                      ABS. JOUR. : AZKhim., 60. 7,
                                   CATRGORY
                                            NOHTUA
                                               TN31.
                                                                                                                                     : analyzed, No 15 introduced for 5 minutes, and
                                                         ABSTRACT analyzed, No is introduced for 5 m-nutes, and polarography is carried out from - 0.7 v (seturated calonel polarography is carried out determination of NO; in accordance electrode). For a separate determination constraint and carried out of analyzed several polarography.
                                                TITLE
                                                             electrode), for a separate determination of NO3- in added and sector of an appear of analyzed solution are added anount of water, after co(NH2)2 mixture with NO2-, to 10 ml amount of water, after co(NH2)2 and a small are added, the mixture is diacons of the relation of the relation of the relation of the relation with water to 50 ml, and after completion of the lutted with water to 50 ml.
                                                     ORIG. PUB. :
                                                                    is dissolved, 4 ml 1 N hol are added, the mixture is discovered, 4 ml 1 N hol are added, the mixture is discovered the relation of the relation of the reaction of NO2 (which is checked by means action of decomposition of NO2 (which is checked by means hour) action of decomposition of NO2 (which is checked by means action of decomposition, and lasts less than 1 hour) of the reaction of diazotation, are placed into the cell of the thus produced solution are placed into
                                                                          of the thus produced solution are placed into the cell containing 5 ml of probanound solution. No is introduced into the cell containing 5 ml of probanound solution.
                                                                             on the thus produced solution are placed introduced int
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#### MALINIAK, B.

Phenolic molding powder. p. 354. (PRZEMYSL CHEMICZNY, Vol. 10, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

### MALINIAK, J.

Contribution to the therapeutic problems of synovial form of tuberculous coxitis in children. Acta chir. orthop. traum. Gech. 32 no.2:133-137 Ap\*65

1. Chirurgicke oddelenie Detskej liecebne tuberkulozy v Dolmom Smokovci (veduci: MUDr. J. Duhon).

DUHON, J., Dr.; ZBINOVSKY, D., Dr.; MALINIAK, J., Dr.; KOSTEIKA, St. MUC

Successes and failures of therapy of osteoarticular tuberculosis
with PAS and streptomycin in children. Acta chir. orthop. traum.
cech. 21 no.5=6:150=155 Dec 54.

1. Z chir. odd. Detskej licebne tbc. v Dolnom Smokovci, prednosta
Dr. Duhon

(TUBERCULOSIS, OSTEOARTICULAR, in infant and child
ther. PAS & streptomycin, results)

(PARA-AMINOSALICYLIC ACID, ther. use
tuberc., osteoarticular in inf. & child.)

(STREPTOMYCIN, ther. use
tuberc. osteoarticular in inf. & child.)

#### MALINICHEV, D. I.

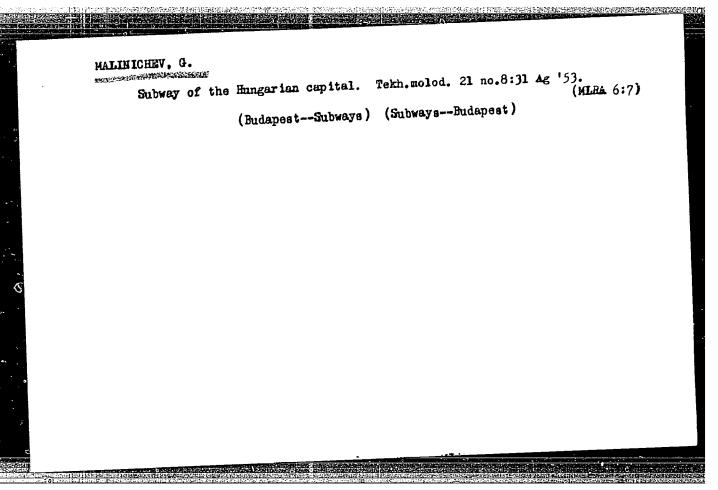
"Experience of Operating 110 kv Oil-Filled Cable in MKS of Mosenergo," "Operation of Cable Networks" (Eksploatatsiya kabeley i kabel'nykh setey), Gosenergoizdat, 1949, 384 pp.

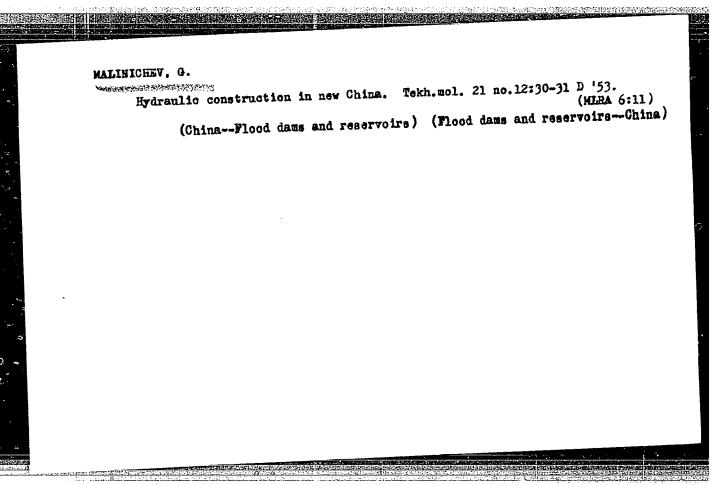
KAS'YAN, A. G.; MALINICHEV, D. I.

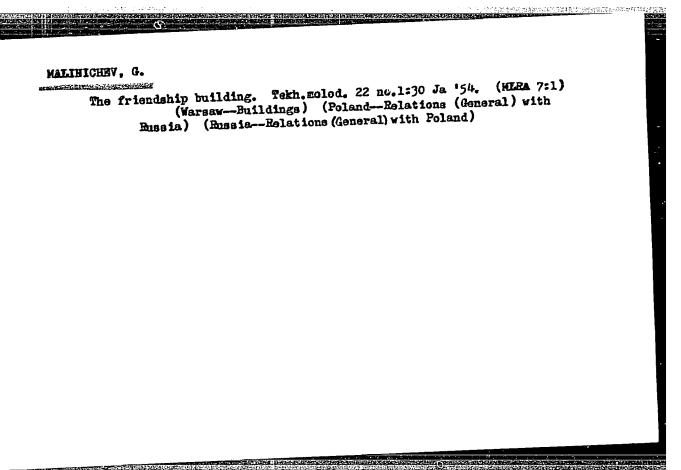
Electric Lines

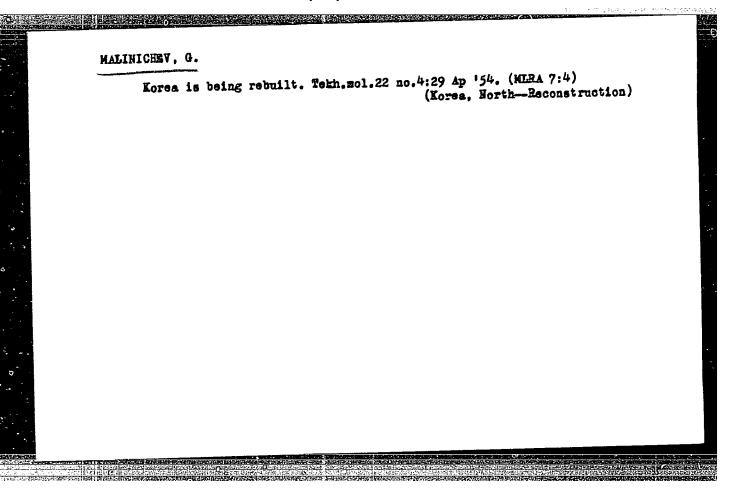
Presses for mounting, connecting, and tightening terminals on electric transmission lines, and connecting bushings on 110 KV cables, Rab, energ. 2, no. 1, 1952.

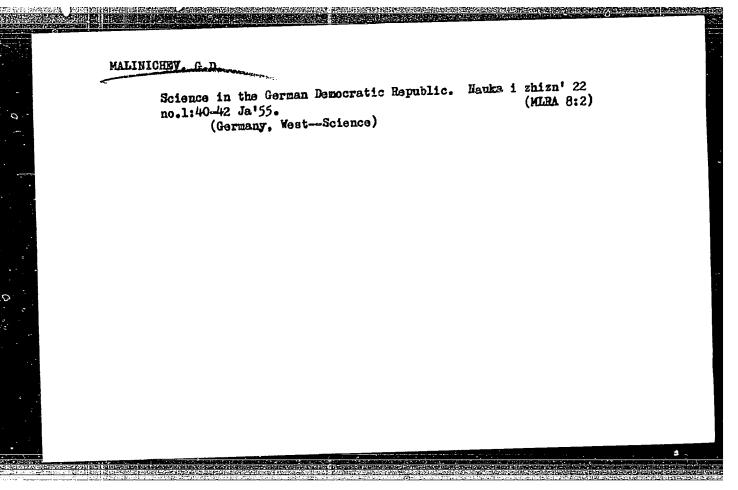
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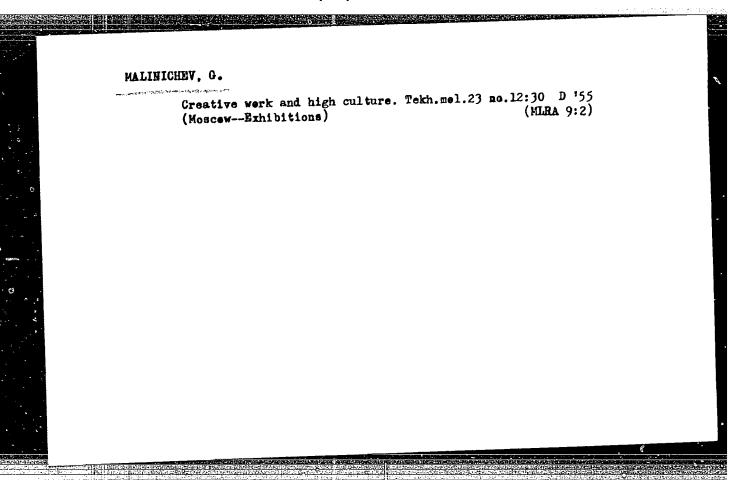


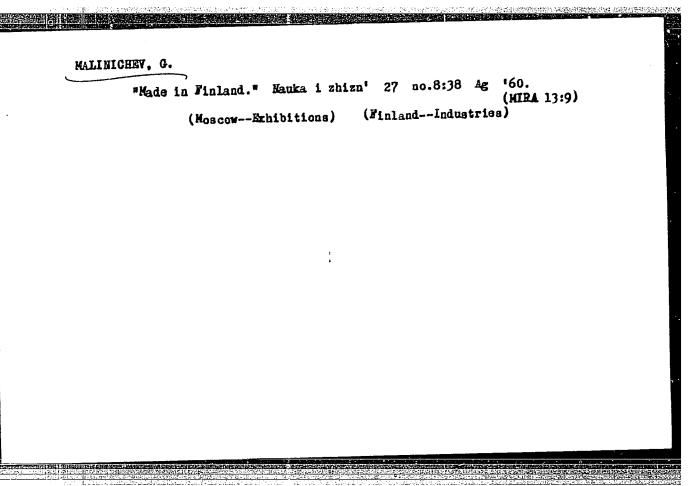


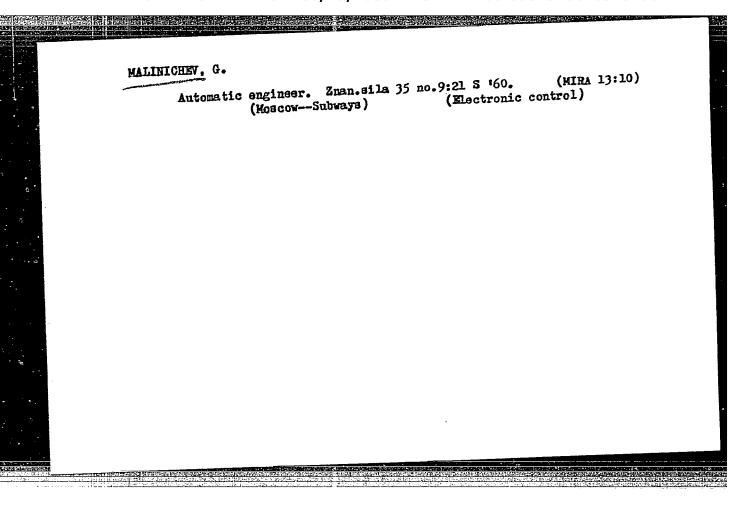












# MALINICHEV, G.

Tractor with a diesel motor and electric generator. IUn.tekh. 6
nq.2:26 '62. (MIRA 15:2)
(Chelyabinsk--Tractors--Design and construction)

## MALINICHEV. G.

Tank for geological surveying. IUn. tekh. 7 no.10:9 0 '62. (MIRA 15:10)

(Geological surveying—Equipment and supplies)
(Motor vehicles)

STEPANENKO, Yu.; KIRPICHNIKOVA, I.; MALINICHEV, G.

Yesterday a dream, today a reality. Zmpn.-sila 37 no.5:31 My 162.
(MIRA 15:9)

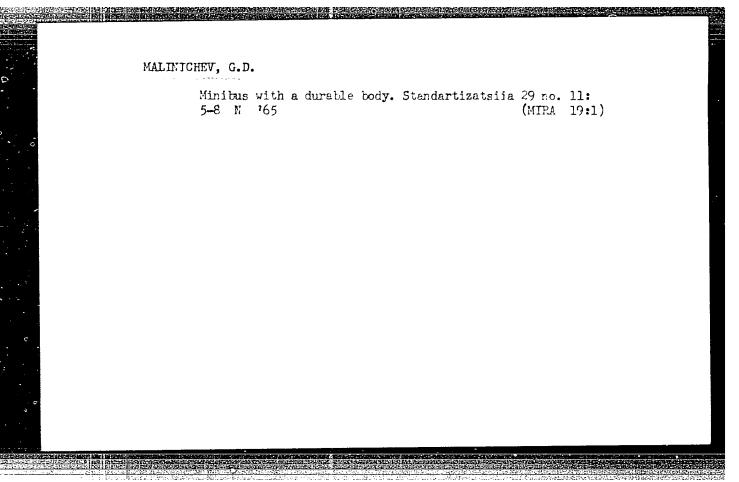
(Technological innovations)

MALINICHEV, G.D.; STRELKOV, V.A.

Turbines from Neva banks. Standartizatsiia 29 no.5:28-29
My '65.

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MALININ, A. YU.

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1087, 1496, 1454

S/019/61/000/006/030/080 A156/A127

AUTHORS:

Dobrovenskiy, V.V., Lovtsov, D.P., and Malinin, A.Yu.

TITLE:

Method for automatic control of direct zone melting

PERIODICAL:

Byulleten' izobreteniy, no. 6, 1961, 47

TEXT: Class 40c, 130. No. 136888 (677051/22 of August 22, 1960).

1. A method for automatic control of the process of direct zone melting, its distinctive feature consisting in that for maintaining a stable moving smolten zone, the intensity of heating is continuously checked by means of a difference signal obtained as a result of measuring the degree of the smolten zone's absorption of the radiation of a radio isotope and comparing same with the degree of radiation of the reference unit. 2. A variant differing in that for the purpose of controlling the process in accordance with a predetermined program intended for obtaining cylindrical ingots, the circuit reference unit is provided with an additional absorber corresponding in shape to the given ingot or monocrystal, shifted upwards at zone-progress speed.

Card 1/1

24977

S/019/61/000/013/034/075 A154/A128

AUTHORS:

18 9500

Danilkov, N.K., Vasil'yev, A.S., Petrov, Yu.B., Morgun, V.V., Malinin, A.Yu., Bamuner, A.V., Kochergin, L.L., Dudin, A.G.,

Slukhotskiy, A.Ye., and Pekeris, G.L.

TITLE:

A device for obtaining silicon monocrystals

PERIODICAL:

Byulleten' izobreteniy, no. 13, 1961, 44

TEXT: Class 40a, 1. No. 139440 (672360/22 of July 6, 1960). A device for obtaining silicon monocrystals of large cross-section, made in the form of a vertical installation for crucibleless zone melting with an induction heater and an electromagnetic support (podpor) of the liquid zone, distinguished by the fact that the device is made with a single screened casing and is provided with a tube inverter for the purpose of regulating the frequency of a low-frequency generator whose inductor is mounted beneath the melting periphery.

Card 1/1

MALININ, A.; AKIMOV. A.V., konsul'tant inchener; SHLEPINA, M., redaktor;

MALININ, A.; AKIMOV. A.V., konsul'tant inchener; SHLEPINA, M., redaktor;

MALININ, A.; AKIMOV. A.V., konsul'tant inchener; SHLEPINA, M., redaktor;

[The road tsward mastery] Put' k masterstvu. [Moskva] Profindat,

(MERA 7:8)

1. Tokar' kiyevskogo mashinostroitel'nogo zavoda "Bol'shevik"

(for Malinin)

(Machine tools)

MALHIM, H.A.

USSR/Automatics and Telemechanics - Relay system

FD-3082

Card 1/2

Pub. 10 - 5/8

Author

: Malinin, A. A. (Gor'kiy)

Title

Investigation of the movements of a relay system on an electronic

model

Periodical

: Avtom. i telem., Vol. 16, Nov-Dec 1955, 542-547

Abstract

: Yu. I. Neymark ("Periodic regimes and stability of relay systems," ibid., No 5, 1953) proposed a new method for finding the periodic regimes of relay systems and investigating the stability of these regimes. The mathematical calculation of partitioning (razbiyeniye) of the space of parameters for relay systems is very difficult; therefore electronic modeling can serve as an essential complement to mathematical investigation of concrete relay systems. Electron modeling possesses a number of virtues and is successfully applied to investigations of complex dynamic systems (e.g. A. S. Alekseyev, "Electronic model of two-position regulator of temperature with zone of lead," Doklady AN SSSR, 87, No 3, 1952). In the present article the author considers an electron model of a relay system

Card 2/2

FD-3082

Abstract

: by means of which he successfully obtains stable periodic movements of various complexity, and he also delineates in the space of parameters the regions of their existence. Three references: e.g. Generirovaniye elektricheskikh kolebaniy spetsial'noy formy [Generation of electrical oscillations of special shape], Soviet

Institution

Submitted

: January 28, 1955

8/0057/64/034/005/0868/0872

ACCESSION NR: AP4035G98

AUTHOR: Gurov,S.V.; Dzhafarov,T.A.; Malinin,A.A.; Qsadin,B.A.; Taynov,Yu.F.

TITLE: Electrode processes in high current vacuum discharges

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.5, 1964, 868-872

TOPIC TAGS: electric discharge, vacuum discharge, high current discharge, electrode erosion

ABSTRACT: Electrode eresion in high current vacuum discharges was investigated by high speed photography of the discharges and microscopic examination of the electrodes. The discharges took place between the ends of coaxial electrodes separated by teflon insulation and located in a chamber evacuated to approximately  $3 \times 10^{-5}$  mm Hg. The inner electrodes were 10 mm in diameter and were of steel, copper, tungsten or tin. The diameters of the outer electrodes were 20 and 28 mm; those were of lead, cadmium, tin, zinc or copper. The energy for the discharge was provided by a bank of electrolytic capacitors charged to from 200 to 300 V and having a capacity of 0.002 to 0.014 farad. The discharge was initiated by a vacuum spark. High speed photographs with a type SFR camera showed the development of a characteristic